

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of changing a rotating mode for recording between CAV (Constant Angular Velocity) and CLV (Constant Linear Velocity), comprising the steps of:

recording input data to a recording medium in CAV mode;

reading data encoded in a wobble signal of a physical track reproduced while recording input data to said recording medium in CAV mode;

detecting a predetermined signal among the read data;

determining a current recording speed based on the predetermined signal;

comparing the determined recording speed with a predetermined speed;

and

changing the rotating mode for recording ~~between from CAV and to CLV~~ according to the result of the comparing step ~~and recording input data to the recording medium in CLV mode.~~

2. (Previously Presented) The method set forth in claim 1, wherein said predetermined signal is a sync signal contained in the encoded data.

3. (Previously Presented) The method set forth in claim 1, wherein said detecting step detects a period of the predetermined signal.

4. (Currently Amended) A method of changing a rotating mode for recording between CAV (Constant Angular Velocity) and CLV (Constant Linear Velocity), comprising the steps of:

- (a) recording input data to an installed recording medium in CAV mode;
- (b) measuring the frequency of a low-frequency component of a wobble signal, which is generated during said recording input data, said wobble signal being formed along a spiral physical track;
- (c) comparing the measured frequency with a predetermined frequency;
- and
- (d) determining when to change the recording mode to CLV based on the comparing step.
- (e) changing the rotating mode for recording from CAV to CLV based on the comparing step and recording input data to the recording medium in CLV mode. ✓

5. (Currently Amended) The method set forth in claim 4, wherein in said step (b) said signal is a wobble signal and said measuring converts the wobble signal to a square wave and counts pulses of the square wave.

6. (Previously Presented) The method set forth in claim 1, wherein the predetermined speed is determined by an encoding speed of an encoder or properties of the recording medium.

7. (Previously Presented) The method set forth in claim 4, wherein the predetermined frequency is determined by an encoding speed of an encoder or properties of the recording medium.

8. (Currently Amended) A method of changing a rotating mode for recording between CAV (Constant Angular Velocity) and CLV (Constant Linear Velocity), comprising the steps of:

recording input data on a recording medium in CAV mode;

measuring a recording speed of input data on said recording medium;

comparing the recording speed with a threshold speed, wherein the threshold speed is determined by a stable encoding speed of an encoder or properties of the recording medium; and

changing the rotating mode for recording between CAV and CLV according to the result of the comparing step and recording input data on the recording medium in CLV mode.

9. (Currently Amended) The method set forth in claim 8, wherein the measuring step comprises the steps of:

reading ~~the~~ a wobble signal formed along a spiral physical track, which is generated during said recording; and

measuring the frequency of a low-frequency component of the wobble signal.

10. (Previously Presented) The method set forth in claim 8, wherein the measuring step comprises the steps of:

reading a wobble signal formed along a spiral physical track which is generated during said recording;

decoding data from the wobble signal;

detecting a predetermined signal among the decoded data; and

measuring the frequency of the detected predetermined signal of the decoded data.
